

FIG.1 DESIGNING OF OVERLAPPING OLIGOS FOR SYNTHESIS OF
ARTIFICIAL PROMOTER

1 GTCGACCATCATTTTGAAAGGGCCTCGGTAATACCATTGTGGAAAAAGTTG
CAGCTGGTAGTAAACTTTCCCGGAGCCATTATGGTAACACCTTTTCAAC

51 GTAATACGAAAAAGAAGATTTCATCATCCAGAAAAGGTGTGGAAAAAGTTG
CATTATGCCTTTTCTTCTAAGTAGTAGGTCTTTTCCACACCTTTTCAAC

101 TGGATTGCGTGGAAAAAGTTTCGATCTGACCATCTCTAGATCGTGGAAAAA
ACCTAACGCACCTTTTTCAGCTAGACTGGTAGAGATCTAGCACCTTTT

151 GTTCACGTAAGCGCTTACGTACATATGTGGATTGTGGAAAAAGAAGACGG
CAAGTGCATTGCGCAATGCATGTATACACCTAACACCTTTTCTTCTGCC

201 AGGCATCGGTGGAAAAAGAAGCTTGTACGCTGTACGCTGACGATAGATAG
TCCGTAGCCACTTTTCTTTCGAACATGCGACATGCGACTGCTATCTATC

251 ATACACGTGCACGCGTCCACTTGACGCACAATTGACGCACAATGACGCCA
TATGTGCACGTGCGCAGGTGAACTGCGTGTTAACTGCGTGTTACTGCGGT

301 CTTGACGCTACTTCACTATATATAGGAAGTTCATTTCAATTTGGATTGGAC
GAACTGCGATGAAGTGATATATATCCTTCAAGTAAAGTAAACCTAACCTG

351 ACGTGTGTTCATTTCTCAACAATTACCAACAACAACAACAACAACAAC
TGCACAACAGTAAAGAGTTGTTAATGGTTGTTGTTGTTGTTGTTGTTGTTG

401 ATTATACAATTACTATTTACAATTACATCTAGAT
TAATATGTTAATGATAAATGTTAATGTAGATCTA

FIG.2 RESTRICTION ENZYME SITES IN ARTIFICIAL SYNTHETIC PROMOTER

SA T
ac f
lc i
II I
GTCGACCATCATTGTGAAAGGGCCTCGGTAATACCATTGTGGAAAAAGTTGGTAATACGGAAAAAGAAGAT
25 50
X X
m b
n a
I I
TCATCATCCAGAAAAGGTGTGGAAAAGTTGTGGATTGCGTGGAAAAAGTTGATCTGACCATCTCTAGAT
75 100 125
X S N
m n d
n a e
I B I
| I |
CGTGGAAAAAGTTTACGTAAGCGCTTACGTACATATGTGGATTGTGGAAAAAGAAGACGGAGGCATCGGT
150 175 200
H M M
i l f
n u e
d I I
3 | |
GGAAAAAGAAGCTTGTACGCTGTACGCTGACGATAGATAGATACACGTGCACGCGTCCACTTGACGCACA
225 250 275
ATTGACGCACAATGACGCCACTTGACGCTACTTCACTATATATAGGAAGTTTCAATTTGGATTGGAC
300 325 350
ACGTGTTGTCATTTCTCAACAATTACCAACAACAACAACAACAACAACATTATACAATTACTATTTAC
375 400
X
b
a
I
AATACATCTAGAT
425

FIG: 3 PRIMER FOR INTRODUCTION OF ATG
CONTEXT IN ARTIFICIAL SYNTHETIC PROMOTER

SEQ ID NO.17

5'AATTACATCTAGATAAACAATGGCTTCCTCCGTAGAAA
CCCCAACCCGTGAAATCAAA 3'